

## SECTION V.—BIBLIOGRAPHY.

## RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Junior Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

**American climatological association.**

*Transactions for the year 1913.* v. 29. Philadelphia. 1913. xxxii, 367 p. 8°.

**Church, J[ames] E[dward], jr.**

The relative efficiency of talus slopes and forests in conserving snow for irrigation. (*In Engineering and contracting*, Chicago, October 15, 1913. p. 441-443. f°.)

**Elefteriu, G[eorge] D.**

Repartiția normală a precipitațiunilor atmosferice România. București. 1913. 20 p. 13 charts. 8°. (Extras din Buletinul Societății regale Române de geografie, no. 1 din 1913.)

**Eredia, Filippo.**

Sul clima della Somalia italiana meridionale. Roma. 1913. 48 p. 8°. (Italy. Ufficio di studi coloniali. Rapporti e monografie, n. 14, ottobre 1913.)

**Finland. Meteorologische Zentralanstalt.**

Beilage zum Finnändischen meteorologischen Jahrbuch, Jahrgang 1906: Schnee- und Eisverhältnisse in Finnland im Winter 1905-1906, von W. W. Korhonen. Kuopio. 1913. [iv], 39 p. f°.

Jahrbuch. Band 8, Teil 2, 1908: Niederschlags-Beobachtungen an den Stationen III Ordnung, 1882-1908, von W. W. Korhonen. Kuopio. 1913. xv, 37 p. f°.

Jahrbuch. Band 10, Teil 2, 1910: Beobachtungen in Helsingfors und an 51 Stationen niedrigerer Ordnung (12 in extenso). Helsingfors. 1913. viii, 101 p. f°.

Jahrbuch. Band 11, Teil 2, 1911: Niederschlags-Beobachtungen in Finland im Jahre 1911, von W. W. Korhonen. Kuopio. 1912. viii, 76 p. map. f°.

**Fuler, M[erton] L.**

The climate of Illinois, its permanence. [Springfield, Ill. 1913.] 11 p. 8°. (Reprinted from: *Transactions of the Illinois state historical society*, 1912.)

**Geld, Ernest.**

The international kite and balloon ascents. London. 1913. 63-144 p. f°. (Great Britain. Meteorological office. Geophysical memoirs, no. 5.)

**Gorczyński, Władysław.**

Wartosci przymiotyczne i sumy ciepła dla Warszawy według pomiarów w okresie, 1901-1913. Valeurs pyrhéliométriques et les sommes d'insolation à Varsovie, 1901-1913. [Polish text; French résumé.] Warszawa. 1914. 36 p. f°. (Extrait des Publications de la Soc. sci. de Varsovie. Commission météorologique. t. 2.)

**Granada. Observatorio meteorológico de Cartuja.**

Boletín anual, 1912. Granada. 1913. 73 p. f°.

**Haldin, Knut.**

On the conductivity of the air at Koppom and Arvika in West-Wärmland. [English text.] [Uppsala. 1913.] 38 p. 8°. (Meddelanden från K. Vetenskapsakademiens Nobelinstutut. Band 2, häfte 4, no. 40.)

**Herrick, R. S.**

Orchard heating and frost prevention. Portland, Oreg. [1913.] 11 p. 8°. (Written specially for use in the Pacific horticultural correspondence school.)

**Hesse. Grossherzogliches hydrographisches Bureau.**

Deutsches meteorologisches Jahrbuch für 1912. Hessen. 12. Jahrgang. Darmstadt. 1913. (17), 65 p. map. f°.

**Hurst, Carl Bailey.**

A French experiment for preventing fog. (*In U. S. Bur. of foreign and domestic commerce. Daily consular and trade reports*, Washington, Jan. 24, 1914. p. 312-313. 8°.)

**Kimball, Herbert H.**

The meteorological aspect of the smoke problem. Pittsburgh. 1913. 51 p. 8°. (Mellon institute of industrial research, etc. Smoke investigation bulletin no. 5.) [See p. 29 of this issue.]

**Loanda. Observatório meteorológico e magnético.**

Chuva em milímetros, [1901-1910]. Loanda. 1913. Chart. 35 $\frac{1}{2}$  x 60 cm.

Pressão atmosférica em milímetros, [1901-1910]. Loanda. 1913. Chart. 30 $\frac{1}{2}$  x 60 cm.

Temperatura à sombra, [1901-1910]. Loanda. 1913. Chart. 35 $\frac{1}{2}$  x 63 $\frac{1}{2}$  cm.

Umidade relativa, [1901-1910]. Loanda. 1913. Chart. 35 $\frac{1}{2}$  x 60 cm.

**Mazelle, Eduard.**

Die stündliche Veränderlichkeit der Temperatur im Tagesschlaf und die tägliche Periode der Temperatur, nach den Thermographenaufzeichnungen am K. K. Maritimen Observatorium in Triest. Wien. 1913. 34 p. 4°. (Aus dem 90. Bande der Denkschriften der Math.-naturw. Kl. der K. Akad. der Wissenschaften.)

**[Mellish, Henry.]**

The weather of 1913, at Hodsock priory, Worksop [Nottinghamshire, England]. n. p. [1914.] 8 p. 2 charts. 8°.

**Moscow. Observatoire météorologique de l'Institut agroéconomique.**

Nabljudenia, 1911. Observations, 1911. [Russian text.] Moskva. 1913. xxii, 72 p. 4°.

**Pennsylvania [railroad] lines west of Pittsburgh.**

A history of the flood of March, 1913, compiled by C. W. Garrett. Pittsburgh. 1913. 257 p. illus. maps. f°. [Meteorological and topographic conditions, chapter 1; Rainfall by days, p. 245.]

**Prussia. K. Meteorologisches Institut.**

Deutsches meteorologisches Jahrbuch für 1910. Preussen und übrige Norddeutsche Staaten. Ergebnisse der Beobachtungen an den Stationen II. und III. Ordnung. Berlin. 1913. xxi, 189 p. map. f°. (Veröffentlichung Nr. 269.)

**Richter, C. M.**

Colds and their relation to the physics of the atmosphere. New York. 1913. 15 p. 12°. (Reprinted from: Medical record, New York, December 6, 1913.)

**Romer, Eugeniusz.**

Klimat ziem polskich. n. t. p. 171-248 p. 3 maps. 8°. (Reprinted from: Encyklopedia polska Akademii umiejętności w Krakowie, tome 1.)

**Smolenski, A. V.**

Sbornik narodnykh priměr o pogodi. Sammlung ueberlieferter Wetterregeln verschiedener Volkstämme Russlands. [Russian text; German index.] Moskva. 1913. xx, 91 p. 4°.

**Sweden. Meteorologiska Centralanstalt.**

Meteorologiska iakttagelser i Sverige, 1912. Observations météorologiques suédoises, publiées par l'Académie royale des sciences de Suède. Vol. 54. 2 sér., vol. 40. 1912. Uppsala, etc. [1913.] x, 157 p. f°.

**Szulc, Kazimierz.**

Wyniki spostrzeżeń meteorologicznych w Dublanach w roku 1912. Observations météorologiques à Dublany, l'année 1912. [Polish text; French résumé.] (In Kosmos, Lwów, rocznik 38, zeszyt 1-3, 1913. p. 215-229. 8°.)

**Uruguay. Instituto meteorológico nacional.**

Datos del Observatorio central Montevideo. Rio de la Plata—Puerto de Montevideo. Años 1911 à 1912. [102] leaves. Mimeographed. f°.

**Warsaw. Biuro meteorologiczne.**

Spostrzeżenia meteorologiczne dokonane w r. 1909 i 1910. Observations météorologiques, années 1909-1910, avec un supplément contenant les valeurs moyennes de la température de l'air en Pologne (1886-1910) et à Varsovie (1779-1910). [Polish and French.] Warszawa. 1913. xi, 154 p. 4°.

## RECENT PAPERS BEARING ON METEOROLOGY.

C. FITZHUGH TALMAN, Junior Professor in Charge of Library.

The subjoined titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of the meteorological contents of all the

journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

*Astrophysical journal.* Chicago. v. 39. January, 1914.

Ångström, Anders. Studies of the nocturnal radiation to space. (Second paper.) p. 95-104.

*Cairo scientific journal.* Alexandria. v. 7. December, 1913.

Hurst, H. E. The frequency of low temperatures in the Sudan and its effect on the cotton crop. p. 265-268.

*Country gentleman.* Philadelphia. v. 79. February 21, 1914.

Frazer, Calvin. The frost problem up to date. What science has learned about a disputed subject. p. 260; 392.

*Geographical journal.* London. v. 43. February, 1914.

Gregory, J. W. Is the earth drying up? p. 148-172.

*International institute of agriculture. Bureau of agricultural intelligence and plant diseases. Monthly bulletin.* Rome. 4th year. December, 1913.

Róna, Sigismund. On the organization of the meteorological service in Hungary. p. 1806-1811.

Crowther, C., & Steuart, D. W. The distribution of atmospheric impurities in the neighborhood of an industrial city. p. 1842-1844. [Abstract.]

*International institute of agriculture. Bureau of agricultural intelligence and plant diseases. Monthly bulletin.* Rome. 5th year. January, 1914.

Hamberg, H[ugo] E[manuel]. Present organization of agricultural meteorology in Sweden. p. 6-8.

*Nature.* London. v. 92. 1914.

Recent temperatures in Europe. p. 617. (Jan. 29.)

Knott, C. G. Dr. R. T. Omond. p. 638. (Feb. 5.)

*Nautical magazine.* Glasgow. v. 91. February, 1914.

Horner, D. W. Some weather problems explained. p. 117-122.

*Science abstracts.* London. v. 16. December, 1913.

Aston, F. W. New element in the atmosphere. p. 661. [Abstract from Engineering. Author finds neon to be a mixture of two gases.]

*Science abstracts.* London. v. 17. January, 1914.

Savinov, C. I. Greatest magnitude of the intensity of solar radiation observed at Pavlovsk from 1892. Enfeeblement of the radiation in the second half of 1912. p. 10-12. [Abstract.]

*Scientific American.* New York. v. 110. February 7, 1914.

The strangest form of cloud: mammato-cumulus. p. 127. [Illustrated.]

Holmes, Harry H. Variations in atmospheric ozone. p. 131-132; 134.

*South African journal of science.* Cape Town. v. 10. December, 1913.

Flowers, Frank. A plea for the exact measurement of rainfall. p. 81-86.

*Symons's meteorological magazine.* London. v. 49. February, 1914.

Hignett, A. H. Notes on the cyclone of October 27th, 1913, in Cheshire. p. 1-2.

M[ossmann] R. C. Robert Traill Omond, LL.D. 1858-1914. p. 10-11. [Obituary. With portrait.]

Aitken, John. Glazed frost. p. 12.

Bonacina, L. C. W. [Glazed frost.] p. 13.

*Washington academy of sciences.* Baltimore. v. 4. January 4, 1914.

Dole, R. B. Note on the chlorine content of rain water at Tortugas, Fla. p. 3-4.

*Annales de géographie.* Paris. 23 année. 15 janvier 1914.

Herbette, François. Le problème de l'Asie intérieure. p. 1-30.

*Cosmos.* Paris. 63 année. 22 janvier 1914.

L'intensité électrique en jeu dans un coup de foudre. p. 87. [Abstract of article by Kohlrausch in Elektrotechnische Zeitschrift.]

*Journal de physique.* Paris. tome 8. Novembre 1913.

Giraud, France. Détermination de l'humidité relative de l'air par le réfractomètre. p. 900-902. [Refractive index of glycerine as an indication of atmospheric humidity.]

Lyons. *L'Observatoire. Bulletin.* St. Genis-Laval. 1 année. Janvier 1914.

Mascart, Jean. Les caractères de l'atmosphère et l'hygiène. p. 105-121.

*Nature.* Paris. 42 année. 7 février 1914.

Rudeaux, Lucien. La neige dans les gouffres des Pyrénées. p. 183-187.

Loisel, Julien. Éruptions volcaniques et températures terrestres. p. 188-190.

*Radium.* Paris. t. 10. Décembre 1913.

McClelland, J. A., & Kennedy, H. Les gros ions dans l'atmosphère. p. 392-400.

*Société météorologique de France. Annuaire.* Paris. 61 année. Décembre 1913.

Angot, Alfred. Sur un mode de classification des étés. p. 341-345.

Descombes, P[aul]. Le reboisement rationnel et la météorologie. p. 346-351.

*Annalen der Hydrographie und maritimen Meteorologie.* Berlin. 42 Jahrgang. 1914.

Lessaft, Emil. Das Karische Meer als Seeweg nach Sibirien. p. 1-14; 65-76. (H. 1; 2.)

Grossmann, [L.], & Perlewitz, [Paul]. Gebrauch von Wetterregeln an der deutschen Küste. p. 14-27. (H. 1.)

Ludewig, Paul. Der Einfluss meteorologischer Faktoren auf die drahtlose Telegrafie. p. 77-95. (H. 2.) [With bibliography.]

Schütze, Alfred. Ein neuer Theodolit mit Schnellablesung, insbesondere für Pilotballonbeobachtungen. p. 100-101. (H. 2.)

*Deutsche Luftfahrer Zeitschrift.* Berlin. 18. Jahrgang. 4. Februar 1914.

Assmann, [Richard A.]. Das Drachenautomobil des kgl. aeronautischen Observatoriums Lindenberg. p. 62.

*Meteorologische Zeitschrift.* Braunschweig. Band 31. Januar 1914.

Köppen, Wladimir, & Wedemeyer, F. Beziehungen zwischen Temperatur, Luftdruck und Höhe der Troposphäre im europäischen Flachlande. p. 1-15.

Stuchtey, Karl. Kappen über Cumulusköpfen im 4000 m-Niveau. p. 15-19.

Woeikof, A. Klima von Aguila (Bolivien) in 5232 m Seehöhe. p. 19-23.

Maurer, J[ulius]. Über Gletscherschwund und Sonnenstrahlung. p. 23-27.

Wolf, Max. Pegelstand und Temperatur des Grundwassers auf dem Königstuhl. p. 27-29.

Schmidt, Alb[ert]. Zur atmosphärischen Trübung. p. 29-30.

H[ann], J[ulius]. J. Scherer: Vieljährige Mittel der Temperatur zu Port au Prince, Haiti. p. 30-31.

Schultheis, Friedr[ich]. Phänologisches. Eintritt der Fruchtreihe nach frühester und spätester Blüte. p. 31-33.

Schmidt, Wilhelm. Welche Arten von Schallreflexion kommen für Donner in Betracht? p. 33-36.

Gruner, P[aul]. Polarisation des Himmels und Lage der neutralen Punkte im Sommer 1913 in Bern. p. 37-38.

Sassenfeld, Max. Zum Klima des tropischen Inneren von Südamerika. p. 38-40.

Roschkott, Alfred. Bemerkungswerte Luftdruckschwankungen in Triest. p. 40-41.

Petermanns Mitteilungen. Gotha. 60. Jahrgang. Januar-Heft. 1914.

Wegener, Karl. Bericht über die Tätigkeit des deutschen Spitzbergenobservatoriums in der Grossbai, Juni 1912 bis September 1913. p. 27.

*Physikalische Zeitschrift.* Leipzig. 15. Jahrgang. 1. Februar 1914.

Herath, Friedrich. Die Messung der Niederschlagslektrizität durch das Galvanometer. p. 155-159. [Abstract of inaugural dissertation.]

Weltall. Berlin. 14. Jahrgang. 2. Dezember-Heft. 1913.

Block, Walter. Die blaue Farbe des Himmels. p. 81-83.

Wetter. Berlin. 31. Jahrgang. Januar 1914.

Arendt, Th[eodor]. Einige Ergebnisse zwanzigjähriger Windregistrierungen in Potsdam. p. 1-10.

Struck, H. Die Einführung des wetterkundlichen Unterrichtes in die höhere Schule. p. 19-24.

*Zeitschrift für Gletscherkunde.* Berlin. Band 8. Dezember 1913.

Machatschek, Fritz. Die Depression der eiszeitlichen Schneegrenze. p. 104-128.